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1	76	yamaguchi-shu.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:34
2	12	nitta-hideichi.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:35
3	11	okada-kyoko.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:38
4	7	mizusawa-kimihiro.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:39
5	6	kozuka-jun.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:40
6	87	noguchi-toshiharu.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:46
7	753	yamashita-hiroyuki.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:46
8	12	anionic same nonionic near8 ratio same silicate same carbonate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/11 16:55

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TITLE: HIGH-DENSITY PARTICULATE DETERGENT COMPOSITION

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ABSTRACT:

PURPOSE: To decrease formation of water-insoluble substances after storage for a long period by compounding each specified amt. of K<SB>2</SB>CO<SB>3</SB>, a polymer chelating agent and sodium silicate into a high-density particulate detergent contg. a surfactant and a crystalline aluminosilicate.

CONSTITUTION: 20-50wt.% surfactant (A) (e.g. alkylbenzene-sulfonate), 10-30wt.% crystalline aluminosilicate (B), 2-15wt.% potassium carbonate (C), a polymer chelating agent (D) with a mol.wt. of at least 1,000 and a stability const. with respect to calcium ions of at least 4, and sodium silicate (E) are

mixed together with the sum of the component D and the component E being 5-20wt.% and the wt. ratio of the component D to the component E being 1/20-2/1 to prepare a high-density particulate detergent composition. An example of the component D is an acrylic acid/maleic acid copolymer wherein the molar comonomer ratio is 80/20-40/60. The obtd. detergent compsn. contains little water-insoluble substances derived from the component B even when it is added to water with a high hardness after storage for a long period.

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